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NOTICE OF ALLOWANCE AND FEE(S) DUE

5514 7590 05/01/2009 FITZPATRICK CELLA HARPER & SCINTO

METHOD AND BATTERY RESIDUAL CAPACITY DISPLAY CONTROL METHOD

PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

FTIZPATRICK CELLA HARPER & SCINTC 30 ROCKEFELLER PLAZA NEW YORK, NY 10112

EXAMINER						
FANTU, YALKEW						
ART UNIT	PAPER NUMBER					
2838 DATE MAILED: 05/01/2009						

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/758,074	01/16/2004	Hideo Horigome	00862.023407.	5289		
TITLE OF INVENTION:	ELECTRIC CHARGING	APPARATUS, ELECTRONIC APPARATUS, RESIDUAL B	ATTERY CAPACITY DE	TECTION		

APPLN TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV, PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE

nonprovisional NO \$1510 \$300 \$0 \$1810 0803/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.
PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.
THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed other ions.	or transmittin ig the Patent, ierwise in Blo	g the ISSI advance o ck 1, by (JE FEE and PUBLICA rders and notification of a) specifying a new con	of ma	ON FEE (if requi aintenance fees w ondence address;	red). B ill be r and/or	locks 1 through 5 s nailed to the current (b) indicating a sepa	nould be corresponded rate "FI	completed where indence address as E ADDRESS" for
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										(Signature)
				L						(Date)
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nonprovisional	NO	\$15	0	\$300		\$0		\$1810		08/03/2009
EXAM	INER	ART U	NIT	CLASS-SUBCLASS	٦					
FANTU, Y		283		320-132000	_					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Corresp Indication for ed. Use of a C	ondence rm customer	2. For printing on the (I) the names of up or agents OR, alterna. (2) the name of a sin registered attorney o 2 registered patent a listed, no name will! THE PATENT (print or data will appear on the IT a substitute for filing a	ative agle or ag attorn be p	3 registered patent ely, firm (having as a gent) and the name news or agents. If a rinted.	membe s of up no name	era 2 o to e is 3	ocument	has been filed for
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	SMALL ENTITY state	s. See 37 CFF		☐ b. Applicant is no le						
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	rired) will not tes Patent and	be accepte Trademark	d from anyone other that Office.	ın th	e applicant; a regis	stered a	ttorney or agent; or th	e assign	ee or other party in
Authorized Signature						Date				
Typed or printed name						Registration N				
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The U.S.C. 122 at USPTO. Tim den, should b NOT SEND	information of 37 CFR in will vary e sent to the FEES OR	on is required to obtain of 1.14. This collection is depending upon the independent of the e Chief Information Off COMPLETED FORMS	or re estin divid ficer TO	tain a benefit by the mated to take 12 n dual case. Any co , U.S. Patent and THIS ADDRESS	ne publi ninutes mments Fradem . SENE	ic which is to file (and to complete, including s on the amount of tit ark Office, U.S. Dep O TO: Commissioner	by the by g gather ne you r artment of for Pater	JSPTO to process) ing, preparing, and equire to complete of Commerce, P.O. its, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010. OMB 0651-0033



UNITED STATES PATENT AND TRADEMARK OFFICE

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5514 7	590 05/01/2009		EXAMINER				
FITZPATRICK	CELLA HARPER &	FANTU, YALKEW					
30 ROCKEFELLER PLAZA			ART UNIT	PAPER NUMBER			
NEW YORK, NY	10112	2838					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 288 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 288 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/758 074 HORIGOME, HIDEO Notice of Allowability Examiner Art Unit YALKEW FANTU 2838 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/24/2009. 2. The allowed claim(s) is/are 1 and 2. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/Adolf Berhane/ Adolf Berhane Primary Examiner Art Unit 2838 Application/Control Number: 10/758,074

Art Unit: 2838

DETAILED ACTION

REASONS FOR ALLOWANCE

The following is the examiner's statement of reasons for allowance. The prior art does not disclose or suggest the following Claim 1 limitations: "... charging apparatus attached to printer ... an electronic power input unit configured to input a driving voltage based on commercial power source ... a power source relay unit configured to output higher voltage of the driving voltage output by said electric power input unit and an output voltage ... wherein the residual capacity of the battery is detected by the printer based on the electric power being supplied via said terminal from said power source relay unit to the printer..." in combination with the remaining claim elements as set forth in Claim 1, and its depending claim 2. Therefore claims 1 and 2 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YALKEW FANTU whose telephone number is (571)272-8928. The examiner can normally be reached on M - F: 7-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Akm E. Ullah can be reached on 571-272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2838

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Adolf Berhane/ Adolf Berhane Primary Examiner Art Unit 2838